

# AV12186DN

12-Megapixel H.264 WDR 180° Panoramic SurroundVideo® IP Camera

**Arecont Vision**  
megapixel technology...  
**beyond imagination**

**AV12186DN**

SurroundVideo® WDR Day/Night Model



World's First 12MP  
Wide Dynamic Range  
Panoramic Camera

WDR up to 100dB Allowing Users to  
See Clearly in Shaded and Bright  
Areas of the Scene Simultaneously

Binning Mode Improves Low-Light  
Performance

### Arecont Vision Advantages:

- All-in-One H.264 SurroundVideo® Solution
- True Wide Dynamic Range Imaging
- True Day/Night Functionality with Removable IR Cut Filter
- Dual Encoder H.264/MJPEG
- Privacy Mask, Motion Detection and Flexible Cropping
- Forensic Zooming
- Bit Rate Control to Limit Bandwidth
- Binning Mode to Increase Sensitivity
- Multi-Streaming
- IP66 and Vandal-Resistant Housing with IK-10 Rated Dome
- Easily Adjustable 2-Axis Camera Gimbal with 360° Pan and 90° Tilt
- Mounting Options Include Pendant Mount, Wall Mount, Corner Mount, Pole Mount, Flush Mount Junction Box Adapter and Electrical Box Adapter
- ONVIF Conformant
- PoE and Auxilliary Power: 12-48V DC/24V AC
- Reduced Overall System Cost

**ONVIF**

Specification sheets subject to change without notice.

Made in the USA

CE c **UL** US

### Camera Imaging

<b>Model</b>	<b>AV12186DN</b>	
<b>Image Sensor</b>	4 x 3MP CMOS WDR	
<b>Optical Format</b>	1/3.2" Progressive Scan	
<b>Pixel Pitch</b>	2.2µm	
<b>Minimum Illumination</b>	Color	0.5 Lux @ F2.0
	Color Binning	0.25 Lux @ F2.0
	Day/Night	0.025 Lux, IR sensitive
<b>Full Field of View (FOV) Resolution</b>	Total	8192 H x 1536 V
	Per Sensor	2048 H x 1536 V
<b>1/4 Resolution</b>	Total	4096 H x 768 V
	Per Sensor	1024 H x 768 V
<b>Dynamic Range</b>	Up to 100dB at Full Resolution	
<b>Lens</b>	M12 small size lens, true 3MP lens	
<b>Video Frame Rates</b>	Max	5.2fps (8192 x 1536)
		16.7fps (4096 x 768)

### Data Transmission

<b>Compression Type</b>	H.264 (MPEG-4, Part 10)/Motion JPEG
	21 levels of quality
<b>Network Protocols</b>	RTSP, RTP/TCP, RTP/UDP, HTTP, DHCP, TFTP
<b>Network Interface</b>	100Base-T Ethernet
<b>Data Rate</b>	Bit rate control from 100Kbps-10Mbps
	Unthrottled data rate up to 50Mbps
<b>Multi-Streaming</b>	8 non-identical streams (2 per sensor)

### Programmability

Auto adjustment between WDR and LDR modes
Binning Mode
Privacy mask
Flexible Cropping (resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264)
+/-5° Digital Vertical Alignment to adjust images
On-camera real-time motion detection with up to 1024 detection zones (per sensor)
Auto multi-matrix white balance
50/60Hz selectable flicker control
Electronic pan, tilt, zoom (PTZ)
Programmable shutter speed to help control motion blur
MoonLight™ Mode: extended exposure and proprietary noise cancellation
Programmable resolution, brightness, saturation, gamma, sharpness, tint
Simultaneous delivery of full field-of-view and zoomed images
Bandwidth and storage savings by running at 1/4 resolution
Bit rate and bandwidth limit control

### Compliance

<b>Industry Standard</b>	ONVIF Conformant
<b>Listings</b>	UL (CB)
<b>FCC Compliance</b>	47 CFR 15 Class A
<b>Environmental</b>	RoHS, REACH, WEEE
<b>Markings</b>	(CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1
<b>Mechanical</b>	IK-10 (EN62262), IP66 (EN60529)

### Environmental

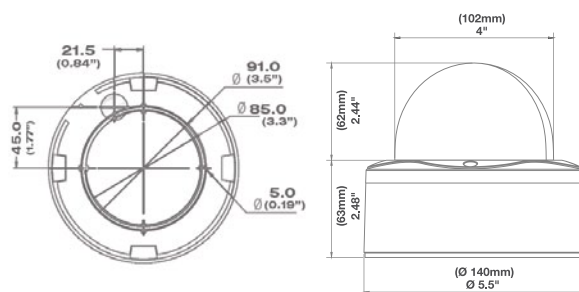
<b>Protection Ratings</b>	IP66 water/dust protection rating
	IK-10 vandal-resistant polycarbonate dome
<b>Operating temperature</b>	-30°C (-22°F) to +50°C (122°F)
<b>Humidity</b>	0% to 90% (non-condensing)
<b>Stable image temperature</b>	0°C (32°F) to +50°C (122°F)
<b>Storage temperature</b>	-30°C (-22°F) to +60°C (140°F)

### Electrical

<b>Input/Output</b>	General purpose opto-coupled
<b>Power Over Ethernet</b>	PoE 802.3af, Class 3
<b>Auxiliary Power</b>	12-48V DC and 24V AC
<b>Max Power Consumption</b>	14 Watts Max (Auxiliary Power)

### Mechanical

<b>Casing</b>	Die-cast aluminum chassis with 4" polycarbonate dome bubble	
	IP66 weather proof standard	
	Vandal resistant, IK-10 rated	
<b>Gimbal</b>	Easily adjustable, 2-axis w/360° pan and 90° tilt	
<b>Total Unit Dimensions</b>	Unit	Ø 5.5" (140mm) x 4.9" H (125mm)
	Bubble Only	Ø 4.0" (102mm) x 2.4" H (62mm)
<b>Weight</b>	Unit	2.8lbs (1.27kg)
	Packaged	3.4lbs (1.54kg)



### Accessories

<b>MD-WMT2</b>	Wall Mount w/1.5" NPT
<b>SV-EBA</b>	Electrical Box Adapter for MD-WMT2
<b>MD-CAP</b>	Wall Mount Cap Only w/1.5" NPT
<b>MD-CMT</b>	Pendant Mount
<b>MD-FMA</b>	Flush Mount
<b>MD-CRMA</b>	Corner Mount Adapter
<b>MD-PMA</b>	Pole Mount Adapter
<b>MD-EBA</b>	Electrical Box Adapter
<b>SV-JBA</b>	Junction Box Adapter